

101.14 - Cast Steels, White Cast Irons, and Ductile Irons (disk form)

These SRMs are for analysis of cast steels and cast irons by rapid instrumental methods.

Technical Contact: john.sieber@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	1138a	1139a	1173	C1137a	C1145a	C1173	C1290	C1291	C1292	c2423a	C2424
Description	Cast Steel (No. 1)	Cast Steel (No. 2)	Ni-Cr-Mo-V Steel	White Cast Iron	White Cast Iron	Cast Steel 3	High Alloy (HC-250 + V)	High Alloy (Ni-Hard, Type I)	High Alloy (Ni-Hard, Type IV)	Ductile Iron B	Ductile Iron C
Unit of Issue	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)
C	0.118	0.790	0.423	2.86	2.92	0.453	3.04	2.67	3.47	3.66	2.68
Mn	0.35	0.92	0.19	0.52	0.187	0.174	0.66	1.14	0.55	0.91	0.268
P	0.035	0.012	0.033	0.087	0.215	0.031	0.030	0.028	0.049	0.246	0.041
S	0.056	0.013	0.092	0.017	0.191	0.092	0.013	0.032	0.016	(0.024
Si	0.25	0.80	1.28	1.15	0.271	1.38	0.971	1.34	0.59	1.59	3.37
Cu	0.09	0.47	0.204	0.192	0.46	0.204	0.065	0.26	0.36	1.61	0.125
Ni	0.10	0.98	4.06	2.17	0.62	4.04	0.917	4.34	5.04	0.147	0.061
Cr	0.13	2.18	2.70	0.643	0.63	2.63	30.5	2.78	11.4	0.322	0.13
V	0.020	0.26	0.42	0.019	0.112	0.42	0.442	0.031	0.041	0.043	0.083
Mo	0.05	0.51	1.50	0.86	0.48	1.46	(0.041)	0.32	0.25	0.159	0.019
Ti	(0.0012)	(0.004)	(0.015)	(0.04)	0.012	0.037			0.10	0.050	
Al	(0.067)	(0.13)		(0.007)	(0.04)	(0.005)			(0.08)	(
Mg					0.032				0.076	0.006	
Co			(0.064)	Ce 0.016	0.058	(0.064)			(0.02)	(0.05)	

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Unit of Issue	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)
As	(((0.02)	(0.02)					
Fe	(98.7)	(93.0)									
Pb						(0.0006)					
Nb			(0.045)								
Ce									0.031	0.0046	
La									0.0042	0.0011	

Values in parentheses are not certified and are given for information only.

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B

(0.01) (0.002)

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